

Elevator

Applicable Age Group

6+

Activity Objectives

- ☑ Understand the types of elevators (such as passenger elevators, freight elevators, medical elevators, escalators, etc.)
- ☑ Understand the components of elevators: base, elevator shaft, car, rubber band transmission structure
- ☑ Learn the rubber band transmission structure

Activity Description

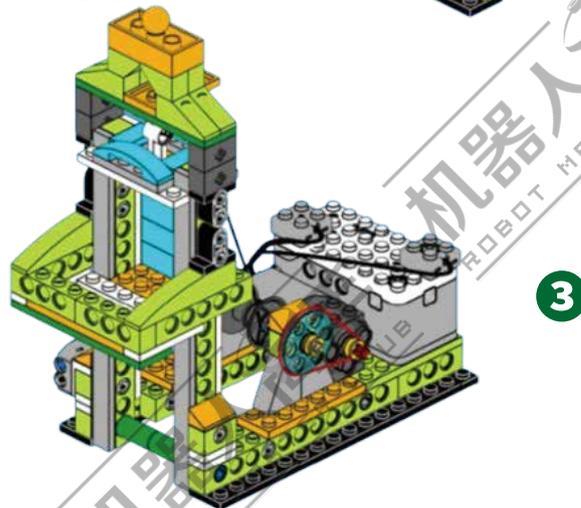
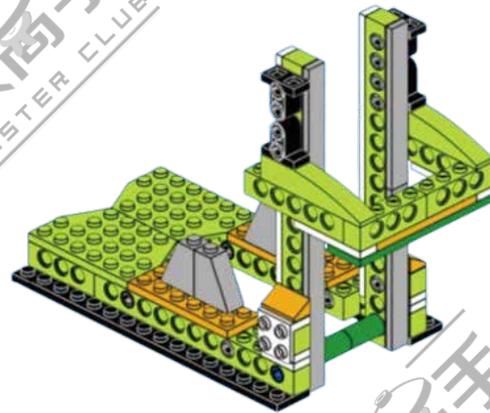
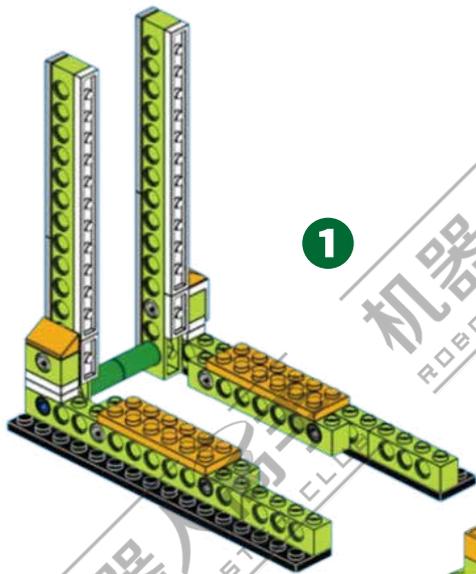
In this course, children will learn to construct a delicate and solid elevator, and use the rubber band transmission structure as the transmission component for elevator lifting.

STEAM Literacy Development Indicators

Indicator	Method	Situation Introduction & Problem Analysis	Using Rubber Band Transmission	Testing Structural Stability and Smoothness	Understanding the Application of Rubber Band Transmission
Curiosity and Imagination		●			
Flexibility and Adaptability			●		
Verbal and Written Communication Skills		●			
Cross-boundary Cooperation and Exemplary Leadership					
Critical Thinking and Problem-solving Skills				●	
Proactive and Pioneering Spirit					●
Ability to Evaluate and Analyze Information				●	

Building Block List

	X 5		X 4		X 2		X 2		X 1
	X 2		X 5		X 3		X 4		X 1
	X 4		X 2		X 2		X 4		X 1
	X 2		X 2		X 2		X 2		X 2
	X 2		X 2		X 1		X 4		X 2
	X 3		X 1		X 4		X 2		X 4
	X 4		X 13		X 2		X 4		X 1
	X 2		X 2		X 2		X 4		X 1
	X 4		X 1		X 2		X 2		X 1



Construction Steps

Makerzoid(App)-Robot Master(Kit)-Soccer Competition(Set)-10 Newly Updated Programming-4 Elevator